

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 101652,928A
Source: 17W/6
Date Processed by STIC: 2/16/07

ENTERED



IFW16

RAW SEQUENCE LISTING DATE: 02/16/2007
 PATENT APPLICATION: US/10/652,928A TIME: 15:37:02

Input Set : E:\FINAL Revised Sequence listing.txt
 Output Set: N:\CRF4\02162007\J652928A.raw

4 <110> APPLICANT: Chiaur, D.
 5 Pagano, M.
 6 Latres, E.
 8 <120> TITLE OF INVENTION: METHODS TO IDENTIFY COMPOUNDS USEFUL FOR THE TREATMENT
 9 OF PROLIFERATIVE AND DIFFERENTIATIVE DISORDERS
 W--> 10 <130> FILE REFERENCE: 5914-099-999 (pg. 6)
 12 <140> CURRENT APPLICATION NUMBER: US/10/652,928A
 13 <141> CURRENT FILING DATE: 2003-08-28
 15 <150> PRIOR APPLICATION NUMBER: US/09/385,219A
 16 <151> PRIOR FILING DATE: 1999-08-27
 18 <150> PRIOR APPLICATION NUMBER: 60/098,355
 19 <151> PRIOR FILING DATE: 1998-08-28
 21 <150> PRIOR APPLICATION NUMBER: 60/118,568
 22 <151> PRIOR FILING DATE: 1999-02-03
 24 <150> PRIOR APPLICATION NUMBER: 60/124,449
 25 <151> PRIOR FILING DATE: 1999-03-15
 27 <160> NUMBER OF SEQ ID NOS: 100
 29 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 31 <210> SEQ ID NO: 1
 32 <211> LENGTH: 2151
 33 <212> TYPE: DNA
 34 <213> ORGANISM: Homo sapiens
 36 <220> FEATURE:
 37 <223> OTHER INFORMATION: Nucleotide sequence of human F-box protein FBP1/Beta-TRCP1
 39 <400> SEQUENCE: 1
 40 tgcgttggct gcggcctggc accaaagggg cggccccggc ggagagcgga cccagtggcc 60
 41 tcggcgatta tggacccggc cgaggcggtg ctgcaagaga aggcactcaa gtttatgaat 120
 42 tcctcagaga gagaagactg taataatggc gaaccctcta ggaagataat accagagaag 180
 43 aattcactta gacagacata caacagctgt gccagactct gcttaaacca agaaacagta 240
 44 tggtagcaa gcactgctat gaagactgaa aatttgtgg caaaaacaaa acttgccaaat 300
 45 ggcacttcca gtatgattgt gcccaagcaa cggaaactct cagcaagcta tgaaaaggaa 360
 46 aagaactgt gtgtcaataa ctttgagcag tggtagagt cagatcaagt ggaatttgg 420
 47 gaacatctta tatccaaat gtgtcattac caacatgggc acataaactc gtatctaaa 480
 48 cctatgtgc agagagattt cataactgct ctgccagctc ggggattgga tcatatcgct 540
 49 gagaacattc tgtcataacct ggtgcacaa tcactatgtg ctgctgaact tgttgcaag 600
 50 gaatggtacc gagtgcattc tcatggcatg ctgtgaaaga agcttatcga gagaatggc 660
 51 aggacagatt ctctgtggag aggccctggca gaacgaagag gatggggaca gtatttattc 720
 52 aaaaacaaac ctccctgacgg gaatgctcct cccactt cttatagagc actttatcct 780
 53 aaaattatac aagacattga gacaatagaa tctaattgga gatgtggaa acatagttta 840
 54 cagagaattc actgccaaag tggaaacaagc aaaggagttt actgtttaca gtatgatgat 900
 55 cagaaaatag taagcgccct tcgagacaac acaatcaaga tctgggataa aaacacattg 960
 56 gaatgcaagc gaattctcac aggcataca ggttcagtcc tctgtctcca gtatgatgag 1020
 57 agagtgtatca taacaggatc atcggattcc acggcagag tggatgttggatgt aaatacagg 1080

RAW SEQUENCE LISTING DATE: 02/16/2007
 PATENT APPLICATION: US/10/652,928A TIME: 15:37:02

Input Set : E:\FINAL Revised Sequence listing.txt
 Output Set: N:\CRF4\02162007\J652928A.raw

58 gaaatgctaa acacgttcatcaccattgt gaagcagttc tgcacttgcg tttcaataat 1140
 59 ggcatgatgg tgacctgctc caaagatcg tccattgctg tatggatat ggcctccca 1200
 60 actgacatta ccctccggag ggtgctggtc ggacaccgag ctgctgtcaa tggtagac 1260
 61 tttgatgaca agtacattgt ttctgcattt gggatagaa ctataaaggt atgaaacaca 1320
 62 agtacttgc aatttgcattt gacccattaa ggacacaaac gaggcattgc ctgttgcag 1380
 63 tacagggaca ggctggtagt gaggctgtca tctgacaaca ctatcagatt atggacata 1440
 64 gaatgtgttgc catgtttacg agtgcattttt ggcatttgcgg aattgtgtcg ttgttattcga 1500
 65 tttgataaca agaggatagt cagtggggcc tatgtatggaa aaattaaagt gtggatctt 1560
 66 gtggctgctt tggacccccc tgctccctgca gggacactct gtctacggac ccttggag 1620
 67 cattccggaa gagttttcg actacagttt gatgaattcc agattgtcag tagttcacat 1680
 68 gatgacacaa tcctcatctg ggacttccta aatgatccag ctgcccagc tgaacccccc 1740
 69 cgttcccccctt ctcgaacata cacctacatc tccagataaa taaccataca ctgacccat 1800
 70 acttgcggcag gacccattaa agttgcggta tttaacgtat ctgccaatac caggatgagc 1860
 71 aacaacagta acaatcaaac tactgcggcag ttcccttgcga cttagccgagg agcagggctt 1920
 72 tgagactcct gttgggacac agttggctgt cagtcggccc aggacggctt actcagcaca 1980
 73 actgactgct tcagtgcgtc tatcagaaga tgtcttctat caattgtgaa tgattggaaac 2040
 74 ttttaaacct cccctccctc cctccttca cctctgcacc tagtttttc ccattgggtc 2100
 75 cagacaaagg tgacttataa atatatttag tggccaa gaaaaaaaaa a 2151
 77 <210> SEQ ID NO: 2
 78 <211> LENGTH: 569
 79 <212> TYPE: PRT
 80 <213> ORGANISM: Homo sapiens
 82 <220> FEATURE:
 83 <223> OTHER INFORMATION: Amino Acid sequence of human F-box protein FBP1/Beta-TRCP1
 85 <400> SEQUENCE: 2
 86 Met Asp Pro Ala Glu Ala Val Leu Gln Glu Lys Ala Leu Lys Phe Met
 87 1 5 10 15
 88 Asn Ser Ser Glu Arg Glu Asp Cys Asn Asn Gly Glu Pro Pro Arg Lys
 89 20 25 30
 90 Ile Ile Pro Glu Lys Asn Ser Leu Arg Gln Thr Tyr Asn Ser Cys Ala
 91 35 40 45
 92 Arg Leu Cys Leu Asn Gln Glu Thr Val Cys Leu Ala Ser Thr Ala Met
 93 50 55 60
 94 Lys Thr Glu Asn Cys Val Ala Lys Thr Lys Leu Ala Asn Gly Thr Ser
 95 65 70 75 80
 96 Ser Met Ile Val Pro Lys Gln Arg Lys Leu Ser Ala Ser Tyr Glu Lys
 97 85 90 95
 98 Glu Lys Glu Leu Cys Val Lys Tyr Phe Glu Gln Trp Ser Glu Ser Asp
 99 100 105 110
 100 Gln Val Glu Phe Val Glu His Leu Ile Ser Gln Met Cys His Tyr Gln
 101 115 120 125
 102 His Gly His Ile Asn Ser Tyr Leu Lys Pro Met Leu Gln Arg Asp Phe
 103 130 135 140
 104 Ile Thr Ala Leu Pro Ala Arg Gly Leu Asp His Ile Ala Glu Asn Ile
 105 145 150 155 160
 106 Leu Ser Tyr Leu Asp Ala Lys Ser Leu Cys Ala Ala Glu Leu Val Cys
 107 165 170 175
 108 Lys Glu Trp Tyr Arg Val Thr Ser Asp Gly Met Leu Trp Lys Lys Leu
 109 180 185 190

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/652,928A

DATE: 02/16/2007
TIME: 15:37:02

Input Set : E:\FINAL Revised Sequence listing.txt
Output Set: N:\CRF4\02162007\J652928A.raw

110 Ile Glu Arg Met Val Arg Thr Asp Ser Leu Trp Arg Gly Leu Ala Glu
111 195 200 205
112 Arg Arg Gly Trp Gly Gln Tyr Leu Phe Lys Asn Lys Pro Pro Asp Gly
113 210 215 220
114 Asn Ala Pro Pro Asn Ser Phe Tyr Arg Ala Leu Tyr Pro Lys Ile Ile
115 225 230 235 240
116 Gln Asp Ile Glu Thr Ile Glu Ser Asn Trp Arg Cys Gly Arg His Ser
117 245 250 255
118 Leu Gln Arg Ile His Cys Arg Ser Glu Thr Ser Lys Gly Val Tyr Cys
119 260 265 270
120 Leu Gln Tyr Asp Asp Gln Lys Ile Val Ser Gly Leu Arg Asp Asn Thr
121 275 280 285
122 Ile Lys Ile Trp Asp Lys Asn Thr Leu Glu Cys Lys Arg Ile Leu Thr
123 290 295 300
124 Gly His Thr Gly Ser Val Leu Cys Leu Gln Tyr Asp Glu Arg Val Ile
125 305 310 315 320
126 Ile Thr Gly Ser Ser Asp Ser Thr Val Arg Val Trp Asp Val Asn Thr
127 325 330 335
128 Gly Glu Met Leu Asn Thr Leu Ile His His Cys Glu Ala Val Leu His
129 340 345 350
130 Leu Arg Phe Asn Asn Gly Met Met Val Thr Cys Ser Lys Asp Arg Ser
131 355 360 365
132 Ile Ala Val Trp Asp Met Ala Ser Pro Thr Asp Ile Thr Leu Arg Arg
133 370 375 380
134 Val Leu Val Gly His Arg Ala Ala Val Asn Val Val Asp Phe Asp Asp
135 385 390 395 400
136 Lys Tyr Ile Val Ser Ala Ser Gly Asp Arg Thr Ile Lys Val Trp Asn
137 405 410 415
138 Thr Ser Thr Cys Glu Phe Val Arg Thr Leu Asn Gly His Lys Arg Gly
139 420 425 430
140 Ile Ala Cys Leu Gln Tyr Arg Asp Arg Leu Val Val Ser Gly Ser Ser
141 435 440 445
142 Asp Asn Thr Ile Arg Leu Trp Asp Ile Glu Cys Gly Ala Cys Leu Arg
143 450 455 460
144 Val Leu Glu Gly His Glu Glu Leu Val Arg Cys Ile Arg Phe Asp Asn
145 465 470 475 480
146 Lys Arg Ile Val Ser Gly Ala Tyr Asp Gly Lys Ile Lys Val Trp Asp
147 485 490 495
148 Leu Val Ala Ala Leu Asp Pro Arg Ala Pro Ala Gly Thr Leu Cys Leu
149 500 505 510
150 Arg Thr Leu Val Glu His Ser Gly Arg Val Phe Arg Leu Gln Phe Asp
151 515 520 525
152 Glu Phe Gln Ile Val Ser Ser His Asp Asp Thr Ile Leu Ile Trp
153 530 535 540
154 Asp Phe Leu Asn Asp Pro Ala Ala Gln Ala Glu Pro Pro Arg Ser Pro
155 545 550 555 560
156 Ser Arg Thr Tyr Thr Tyr Ile Ser Arg
157 565
160 <210> SEQ ID NO: 3

RAW SEQUENCE LISTING

DATE: 02/16/2007

PATENT APPLICATION: US/10/652,928A

TIME: 15:37:02

Input Set : E:\FINAL Revised Sequence listing.txt
 Output Set: N:\CRF4\02162007\J652928A.raw

161 <211> LENGTH: 1476
 162 <212> TYPE: DNA
 163 <213> ORGANISM: Homo sapiens
 165 <220> FEATURE:
 166 <223> OTHER INFORMATION: Nucleotide sequence of human F-box protein FBP2
 168 <400> SEQUENCE: 3
 169 atggagagaa aggacttga gacatggctt gataacattt ctgttacatt tctttctctg 60
 170 acggacttgc agaaaaatga aactctggat cacctgatta gtctgagtgg ggcagtcagg 120
 171 ctcaggcatc tctccaataa ccttagagact ctcctcaagg gggacttcctt caaactcctt 180
 172 cccctggagc tcagtttta tttgttaaaa tggctcgatc ctcagactttt actcacatgc 240
 173 tgcctcgatc ctaaacatgtt gaataaaggatg ataagtgcctt gtacagagggt gtggcagact 300
 174 gcatgtaaaaa atttgggctg gcagatagat gattctgttc aggacgcctt gcactggaaag 360
 175 aaggtttatt tgaaggctat tttgagaatg aagcaactgg aggaccatga agcctttgaa 420
 176 acctcgtcat taattggaca cagtggcaga gtgtatgcac ttactacaa agatggactt 480
 177 ctctgtacag ggtcagatga ttgtctgca aagctgtggg atgtgagcac agggcagtgc 540
 178 gtttatggca tccagaccca cacttgcacat gcggtgaagt ttgatgaaca gaagcttgc 600
 179 acaggctctt ttgacaacac tggcttgc tggaaatgg gttccggagc caggacccag 660
 180 cacttcggg ggcacacggg ggeggattt agcgtggact acaatgtga actggatata 720
 181 ttggtgagcg gctctgcaga cttcacttgc aaagtatggg ctttatctgc tggacatgc 780
 182 ctgaacacac tcaccggca cacggatgg gtcaccaagg tagtttgca gaagtgc 840
 183 gtcaagtctc tcttgcacag tcctggagac tacatcctt taagtgcaga caaatatgag 900
 184 attaagattt ggcacattgg gagagaaatc aactgttaagt gcttaaagac attgtctgc 960
 185 tctgaggata gaagtatctg cctgcagccca agacttcattt ttgatggcaa atacattgtc 1020
 186 tggatgttcag cacttggatctt accaggatgg gactttgcata gttatgatat tctcagggtc 1080
 187 atcaagactc ctgagatagc aaacttggcc ttgatggctt ttggatgatat ctttgcctg 1140
 188 ctgtttgaca accgttacatgtt gacttgcggaa cagagggctt gattagtcgc 1200
 189 tggcctctgc cagagtacag ggaatcaaag agaggctaa gcttcctggc aggcaacat 1260
 190 cctggctgaa tggactggat gggcacaatg acacggctt ggtcttgc accagcatgc 1320
 191 ctgaccacag tattcacatgtt gtgttgcggaa aggacacgg ctgacaccat gagccaccac 1380
 192 cgctgactga ctttgggtgc cggggctgctggat ggtttgggt gcacctctgc ggcacgcgac 1440
 193 tgcacatggca accatgttca cctaatggta tcatca 1476
 195 <210> SEQ ID NO: 4
 196 <211> LENGTH: 422
 197 <212> TYPE: PRT
 198 <213> ORGANISM: Homo sapiens
 200 <220> FEATURE:
 201 <223> OTHER INFORMATION: Amino Acid sequence of human F-box protein FBP2
 204 <400> SEQUENCE: 4
 205 Met Glu Arg Lys Asp Phe Glu Thr Trp Leu Asp Asn Ile Ser Val Thr
 206 1 5 10 15
 207 Phe Leu Ser Leu Thr Asp Leu Gln Lys Asn Glu Thr Leu Asp His Leu
 208 20 25 30
 209 Ile Ser Leu Ser Gly Ala Val Gln Leu Arg His Leu Ser Asn Asn Leu
 210 35 40 45
 211 Glu Thr Leu Leu Lys Arg Asp Phe Leu Lys Leu Leu Pro Leu Glu Leu
 212 50 55 60
 213 Ser Phe Tyr Leu Leu Lys Trp Leu Asp Pro Gln Thr Leu Leu Thr Cys
 214 65 70 75 80
 215 Cys Leu Val Ser Lys Gln Trp Asn Lys Val Ile Ser Ala Cys Thr Glu

RAW SEQUENCE LISTING DATE: 02/16/2007
 PATENT APPLICATION: US/10/652,928A TIME: 15:37:02

Input Set : E:\FINAL Revised Sequence listing.txt
 Output Set: N:\CRF4\02162007\J652928A.raw

216 85 90 95
 217 Val Trp Gln Thr Ala Cys Lys Asn Leu Gly Trp Gln Ile Asp Asp Ser
 218 100 105 110
 219 Val Gln Asp Ala Leu His Trp Lys Lys Val Tyr Leu Lys Ala Ile Leu
 220 115 120 125
 221 Arg Met Lys Gln Leu Glu Asp His Glu Ala Phe Glu Thr Ser Ser Leu
 222 130 135 140
 223 Ile Gly His Ser Ala Arg Val Tyr Ala Leu Tyr Tyr Lys Asp Gly Leu
 224 145 150 155 160
 225 Leu Cys Thr Gly Ser Asp Asp Leu Ser Ala Lys Leu Trp Asp Val Ser
 226 165 170 175
 227 Thr Gly Gln Cys Val Tyr Gly Ile Gln Thr His Thr Cys Ala Ala Val
 228 180 185 190
 229 Lys Phe Asp Glu Gln Lys Leu Val Thr Gly Ser Phe Asp Asn Thr Val
 230 195 200 205
 231 Ala Cys Trp Glu Trp Ser Ser Gly Ala Arg Thr Gln His Phe Arg Gly
 232 210 215 220
 233 His Thr Gly Ala Val Phe Ser Val Asp Tyr Asn Asp Glu Leu Asp Ile
 234 225 230 235 240
 235 Leu Val Ser Gly Ser Ala Asp Phe Thr Val Lys Val Trp Ala Leu Ser
 236 245 250 255
 237 Ala Gly Thr Cys Leu Asn Thr Leu Thr Gly His Thr Glu Trp Val Thr
 238 260 265 270
 239 Lys Val Val Leu Gln Lys Cys Lys Val Lys Ser Leu Leu His Ser Pro
 240 275 280 285
 241 Gly Asp Tyr Ile Leu Leu Ser Ala Asp Lys Tyr Glu Ile Lys Ile Trp
 242 290 295 300
 243 Pro Ile Gly Arg Glu Ile Asn Cys Lys Cys Leu Lys Thr Leu Ser Val
 244 305 310 315 320
 245 Ser Glu Asp Arg Ser Ile Cys Leu Gln Pro Arg Leu His Phe Asp Gly
 246 325 330 335
 247 Lys Tyr Ile Val Cys Ser Ser Ala Leu Gly Leu Tyr Gln Trp Asp Phe
 248 340 345 350
 249 Ala Ser Tyr Asp Ile Leu Arg Val Ile Lys Thr Pro Glu Ile Ala Asn
 250 355 360 365
 251 Leu Ala Leu Leu Gly Phe Gly Asp Ile Phe Ala Leu Leu Phe Asp Asn
 252 370 375 380
 253 Arg Tyr Leu Tyr Ile Met Asp Leu Arg Thr Glu Ser Leu Ile Ser Arg
 254 385 390 395 400
 255 Trp Pro Leu Pro Glu Tyr Arg Glu Ser Lys Arg Gly Ser Ser Phe Leu
 256 405 410 415
 257 Ala Gly Glu His Pro Gly
 258 420
 261 <210> SEQ ID NO: 5
 262 <211> LENGTH: 1407
 263 <212> TYPE: DNA
 264 <213> ORGANISM: Homo sapiens
 266 <220> FEATURE:
 267 <223> OTHER INFORMATION: Nucleotide sequence of human F-box protein FBP3a

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/16/2007
PATENT APPLICATION: US/10/652,928A TIME: 15:37:03

Input Set : E:\FINAL Revised Sequence listing.txt
Output Set: N:\CRF4\02162007\J652928A.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:26; Xaa Pos. 218,556,630
Seq#:29; N Pos. 13,47,68,88,270
Seq#:30; Xaa Pos. 15,22,28,89
Seq#:37; N Pos. 45,329,332
Seq#:38; Xaa Pos. 110,111
Seq#:51; N Pos. 1733
Seq#:52; Xaa Pos. 576,586
Seq#:53; N Pos. 348
Seq#:54; Xaa Pos. 150,309,340,374
Seq#:59; N Pos. 471

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:63;	Line(s)	2771
Seq#:64;	Line(s)	2788
Seq#:65;	Line(s)	2805
Seq#:66;	Line(s)	2822
Seq#:67;	Line(s)	2840
Seq#:68;	Line(s)	2857
Seq#:69;	Line(s)	2874
Seq#:70;	Line(s)	2892
Seq#:71;	Line(s)	2910
Seq#:72;	Line(s)	2928
Seq#:73;	Line(s)	2945
Seq#:74;	Line(s)	2963
Seq#:75;	Line(s)	2981
Seq#:76;	Line(s)	2999
Seq#:77;	Line(s)	3017
Seq#:78;	Line(s)	3038

VERIFICATION SUMMARY

DATE: 02/16/2007

PATENT APPLICATION: US/10/652,928A

TIME: 15:37:03

Input Set : E:\FINAL Revised Sequence listing.txt
Output Set: N:\CRF4\02162007\J652928A.raw

L:10 M:283 W: Missing Blank Line separator, <130> field identifier
L:1102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:208
M:341 Repeated in SeqNo=26
L:1342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:1362 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
M:341 Repeated in SeqNo=30
L:1570 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
M:341 Repeated in SeqNo=37
L:1605 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:96
L:2220 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:51 after pos.:1680
L:2307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:52 after pos.:560
M:341 Repeated in SeqNo=52
L:2333 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:53 after pos.:300
L:2391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:144
M:341 Repeated in SeqNo=54
L:2680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:59 after pos.:420